

Optical Communication Line

ABSTRACT

Optical communication line (2) of a communication
5 system (100) comprising a first processing station (1)
and an amplifying station (A1).

The line comprises a first optical connection (S1) having
at least partially compensated accumulated dispersion and
placed between the first processing station and the
10 amplifying station. A second optical connection having at
least partially compensated accumulated dispersion is
connected to the output of the amplifying station.

Portions of optical fiber (F_{1-1} , F_{2-2}) leaving the
processing station and the amplifying station are
15 associated to respective first order chromatic
dispersions which are of opposite signs and have absolute
values lower than or equal to $13 \text{ ps}^2/\text{Km}$.

[Figure 1]

-54-

ABSTRACT OF THE DISCLOSURE

An optical communication line of a communication system has a first processing station and an amplifying station. The line has a first optical connection having at least partially compensated accumulated dispersion and is placed between the first processing station and the amplifying station. A second optical connection having at least partially compensated accumulated dispersion is connected to the output of the amplifying station. Portions of optical fiber leaving the processing station and the amplifying station are associated to respective first order chromatic dispersions which are of opposite signs and have absolute values lower than or equal to $13 \text{ ps}^2/\text{Km}$.